CAN Newsletter Online

17TH INTERNATIONAL CAN CONFERENCE

Free-of-charge webinars and open-house meetings

Webinars and open-house meetings are accompanying CiA's 17 th international CAN Conference. Six one-hour webinars on the third and fourth day are scheduled. On the second day, open-house meetings, to get an impression how CiA technical groups work, are planned.

CiA plans six one-hour webinars accompanying the iCC (Source: Adobe Stock)

In April, the nonprofit CAN in Automation (CiA) association updated the program of the postponed international CAN Conference (iCC) and also scheduled a free-of-charge supporting program. The iCC takes place from June 14 to June 17 as an online event. The motto is "From Classical CAN via CAN FD to CAN XL". At the conference, CiA has scheduled six one-hour webinars on the third and fourth day. On the second day, CiA has scheduled open-house meetings, to get an impression, how CiA technical groups are working. Those webinars and open-house meetings (which both are an accompanying program) are free of charge, the conference is not. Nevertheless, participants need to register to get the Zoom meeting details.

Webinar topics

On June 16, Dr. Arthur Mutter (Bosch) provides talks about the interoperability of CAN XL and CAN FD. The CAN FD protocol is internationally standardized in ISO 11898-2015. The CAN XL protocol is one of the main topics of the iCC 2021. The one-hour webinar describes the option, how to use both protocols in a network system.

On the same day, Peter Fellmeth (Vector) presents the SAE J1939-22 application layer, which is based on the CAN FD protocol. Most important is the introduction of the Multi-PDU concept mapping several Parameter Groups (PG) into one CAN FD data frame. SAE J1939-22 specifies also a transport protocol for data larger than the 64-byte payload of the CAN FD protocol.

Last webinar on June 16 is given by Alexander Philipp and Torsten Gedenk (Emotas). They describe the migration from classic CANopen to CANopen FD. CANopen FD is specified in CiA 1301 and features the USDO (Universal Service Data Object) services. These services can be sent in broadcast and multicast as well as in unicast.

On June 17, Magnus Hell (Infineon) discusses the CAN physical layer options. This webinar covers the CAN high-speed transceiver (ISO 11898-2:2016), the CAN SIC transceiver (CiA 601-4), and the CAN XL SIC transceiver (CiA 610-3). This webinar provides a general understanding of the differences and gives network design hints.

The second webinar on June 17, introduces the PWM (pulse-width modulation) coding specified for CAN XL. This optional coding/decoding can be implemented on the CAN XL controller and the CAN XL SIC transceiver. Presenter is Matthias Muth (NXP).

The topic of the last webinar is CAN FD topology simulation. Patrick Isensee (C&S Group) reports about made experiences in simulating and designing CAN FD network architectures.

Open-house meetings

On the second iCC day, the association has scheduled open-house meetings, to get an impression, how CiA technical groups are working. The 90-min technical group meetings are open for members and non-members. There will be a brief introduction to the group, especially its scope and its current work plan. This is followed by the normal work of the group: evaluating open issues and new feature requests. Questions and discussions are appreciated, too, said the association.

The interest group (IG) J1939 meeting takes place in parallel to the meetings of the special interest group (SIG) contrast media injector, (electrical) drives, and special-car add-on devices. In the second time slot, there are meetings of the IG profiles and the IG CANopen FD as well as the SIG truck gateway and the SIG CAN FD Light. These Zoom meetings are free of charge, too.
But registration by email is necessary, explained the association.

The open-house meetings are scheduled to get an impression on how the association's technical groups are working (Source: Adobe Stock)

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